Warm Up: 9/11/12

The first stage of a rocket burns 28 seconds longer than the second stage. If the total burning time for both stages is 152 seconds, how long does each stage burn?

Stage 1	Stage 2
$x+28$	x

$$x+x+28=152$$
$$2x+28=152$$
$$-28 \quad -28$$
$$2x=124$$
$$x=62$$

Stage 1	Stage 2
90	62

#8)

$$3(x+1) = 2(x+11)$$

$$3x + 3 = 2x + 22$$

$$-2x \qquad -2x$$

$$x + 3 = 22$$

$$-3 \quad -3$$

$$x = 19$$

#5) $9(z-3)=12z$

$9z-27=12z$

$-9z \qquad -9z$

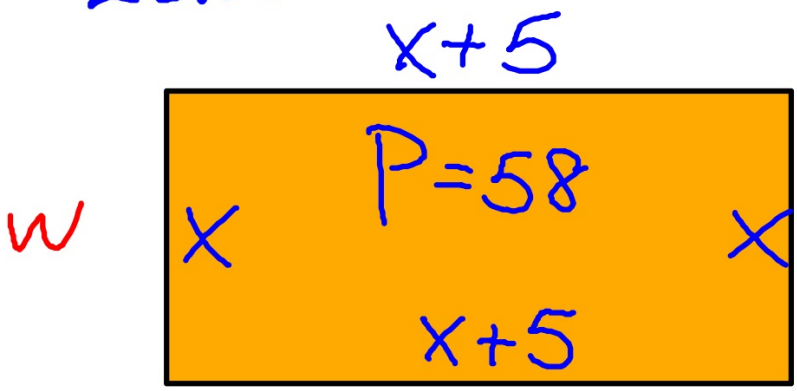
$-27=3z$

$\frac{-27}{3}=\frac{3z}{3}$

$-9=z$

#30

WIDTH = 12 cm
LENGTH = 17 cm



$x + x + x + 5 + x + 5 = 58$ (L)

$4x + 10 = 58$

$4x = 48$

$x = 12$

#31) #1 x #2 $x+2$ #3 $x+4$ #4 $x+6$

$$x+x+2+x+4+x+6=336$$

$$4x+12=336$$

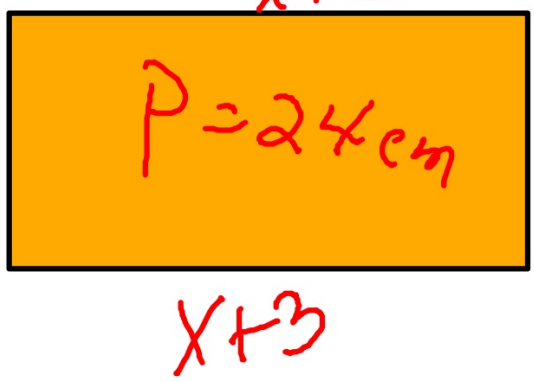
$$4x=324$$

$$x=81$$

#1 = 81
#2 = 83
#3 = 85
#4 = 87

The length of a rectangle is 3 cm greater than the width. The perimeter is 24 cm. Find the dimensions.

$4x+6=24$
$-6 \quad -6$
$4x=18$
$x=4.5$



W = 4.5 cm

L = 7.5 cm

Front # 26, 9, 10, 11

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FINISH FOR HOMEWORK!